Abstract of the Disclosure

An aerosol particle spectrometer utilizes a high voltage central electrode and a series of annular, axially arranged collector electrodes maintained at ground, for collecting positively charged particles suspended in an aerosol flowing between the electrodes. Each collector electrode provides current to an integrating electrometer including circuitry that rapidly charges and discharges the integrating capacitor during a brief reset cycle, to generate accurate particle characterizing information based on low currents, with high bandwidth and high dynamic range, virtually in real time.

914465.1